



# Conservation Information Sheet

August 1999

## Dairy Waste

## Manure Injection System



A high volume manure injection system operates by pumping **liquid manure** from a lagoon through a line of flexible hose directly to the injector mounted on a large tractor. The injector has a row of discs which open up furrows in the ground into which the manure flows. The grass closes in around the furrow and the manure is quickly soaked up. Often a field is chopped, and the manure injector can then aerate and fertilize the grass, producing rapid re-growth.

### **Primary Advantages:**

- \* Rapid pumping rate - much faster then conventional big gun spreaders
- \* Virtually eliminates odor and neighbor complaints
- \* Improves pasture production and palatability
- \* Reduces runoff and water quality problems
- \* Applies dairy manure uniformly and evenly
- \* Increases spreadable area - fencelines & odd-shaped pastures
- \* Can apply manure in windy conditions
- \* Nutrient-filled liquids are pumped and incorporated directly into the soil

### **Primary Disadvantages:**

- \* Higher labor costs
- \* Higher maintenance costs

### **Specifications:**

Approx. cost : \$3,000/1 million gal.  
(does not include agitation)  
Flow Rate: up to 850 gals/minute

### **Contractors:**

NW Ag Services-Gary Zemlicka  
(360) 951 5170 or 943 5595  
Hans Schakel (360) 825 6919 or  
(360) 825 4774  
Evergreen Pumping (360) 354 3150  
Pacific Pumping (360) 354 4403

